

BOULT'S PATENT  
CARVING, PANELING, IRREGULAR MOULDING,  
— AND —  
DOVETAILING MACHINE.



For Shaping, Edge Moulding, Paneling, Curved Moulding, Wood  
ing Boxes or Furniture Work, Dovetailing, &c.

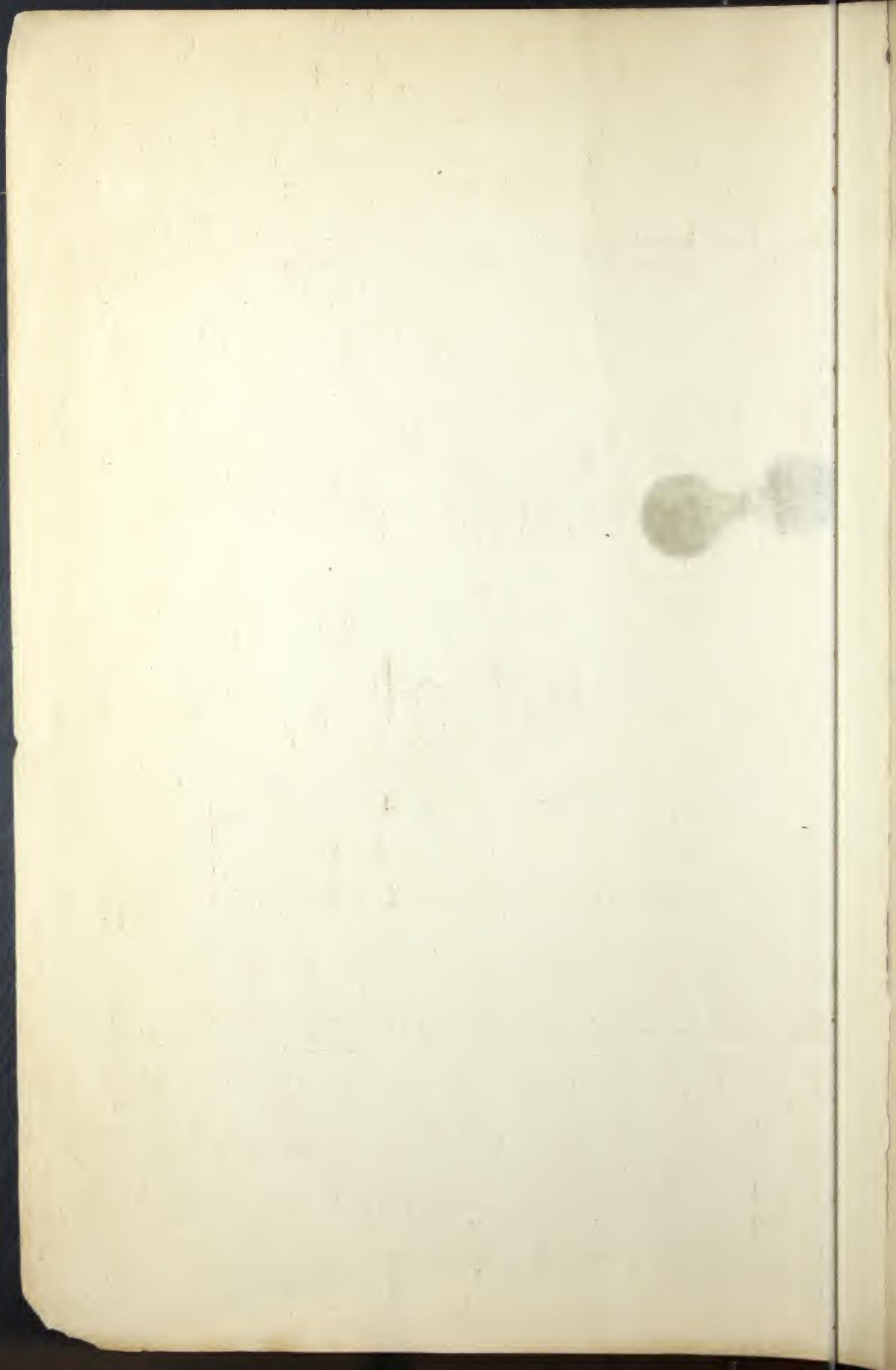


**BATTLE CREEK MACHINERY CO.,**

Sole Manufacturers

BATTLE CREEK, MICHIGAN.

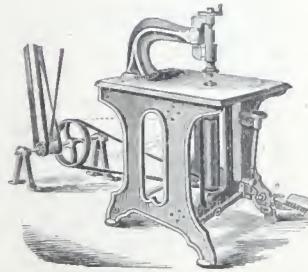
1872



BOULT'S PATENT  
**CARVING, PANELING,**  
 IRREGULAR MOULDING,

— AND —

**DOVETAILING MACHINE.**



M. T. BOULT, Patentee and Agent.

---

**BATTLE CREEK MACHINERY CO.,**

SOLE MANUFACTURERS.

BATTLE CREEK, - - - MICHIGAN.

FIG. 2.

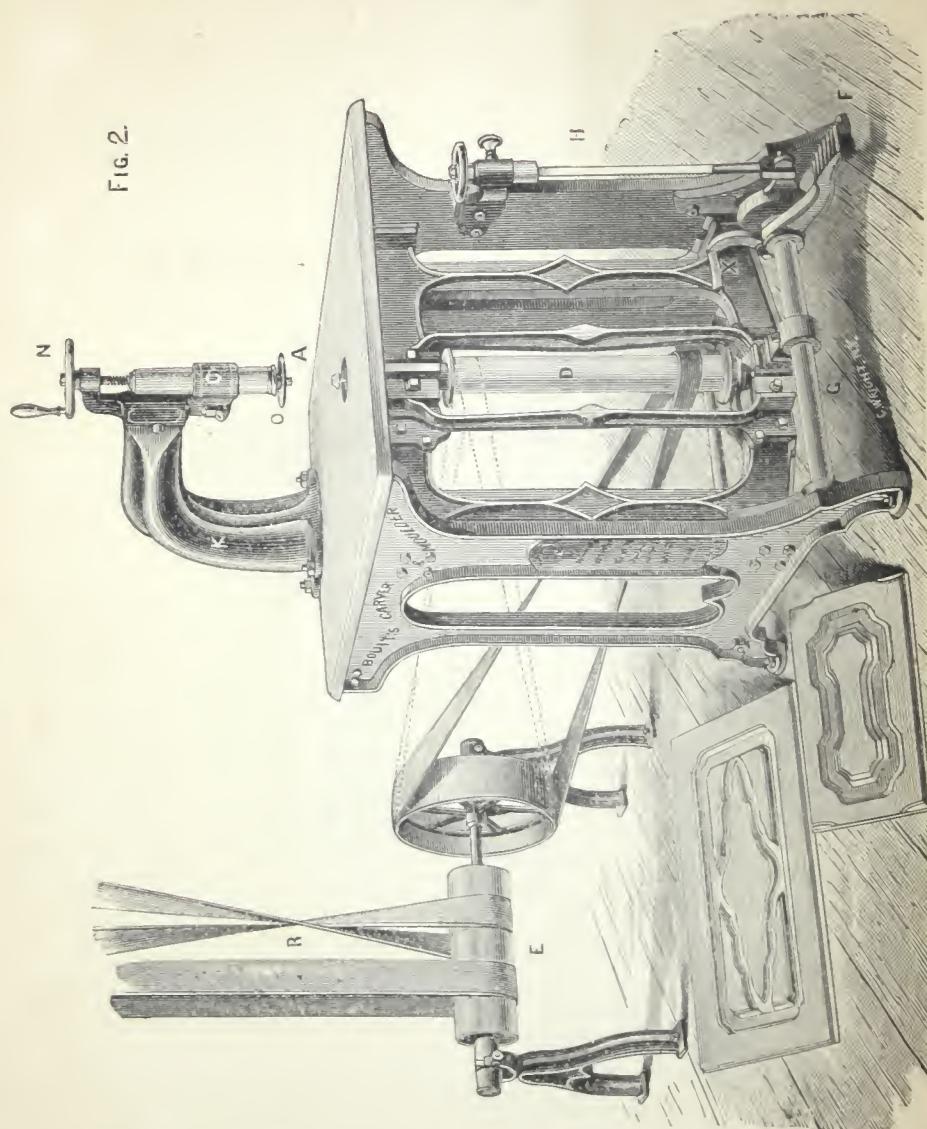
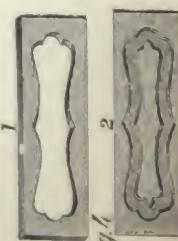
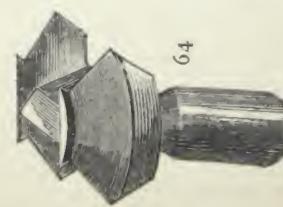
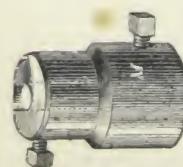


FIG. 1. SHOWS PATTERN FOR CUTTING  
Panel.



Improvement the order of the day.

## TO MANUFACTURERS

— — — — —

*Furniture, Carriages, Cars, Pictures, Dishes, Coffins, Chairs, Drestings, Boxes, Staves, Brushes, Hhds., Chests, Chairs, Working Machines, Trunks, and all works in Wood.*

We would call your attention to the Best Carving and Working Machine heretofore illustrated and described, which we claim, in all respects, to be the simplest, most useful, and cheapest Machine ever produced for general wood-work.

In the choice of machinery it is an object to select that best adapted to the work to be done. Good facilities combined with good management, are necessary to success. Experience demands that a machine, to be profitable, must not be liable to get out of order; must be simple, durable, and adapted to the work required of it.

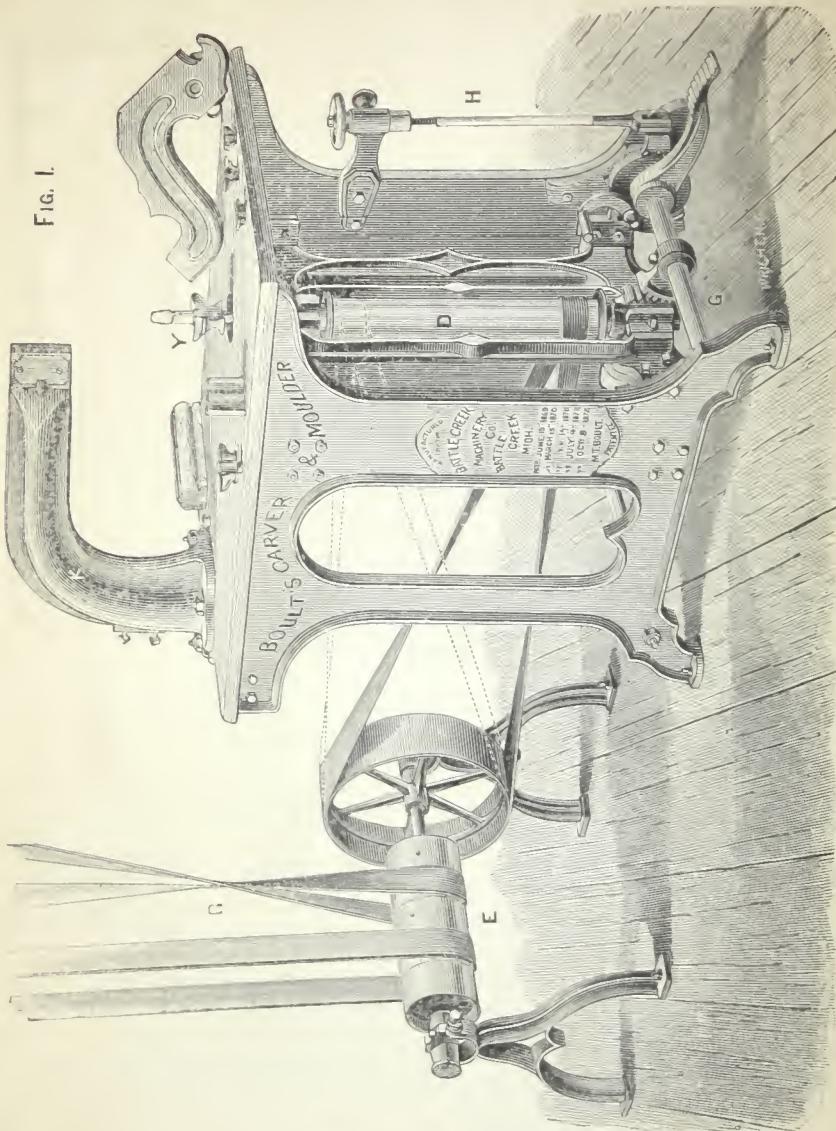
The standard machinery of the day being found inadequate to do all desired necessary, in the adverstisement of the present style of work, the inventor has brought out a machine, which we are happy to say, is being appreciated by competent mechanics, and demand by them *Throughly Practical* in the general business, and *especially* well adapted to all kinds of work heretofore done only by hand. The following pages will explain the varied uses of our machine.

### *Simplicity of the Built Machine.*

It has often been offered as an objection, that machines adapted to an extended variety of work must be more or less complicated—the changes (tools) and settings, and the adjustments troublesome.

A long acquaintance with machinery has given practical suggestions on this point. The consequence is, an arrangement so simple that *not* *any* *man's* *time* in the reversal of more than *five* *tools* is necessary to effect the most radical change in the machine. The operator is surprised at the *versatility* and *variety* of work he is able to accomplish, with so little change of the parts. In short, the machine is particularly recommended for its *General Application to Furniture*, and freedom from traps and useless appendages.

Having been extensively introduced among the best Establishments of the country, in the principal cities of the North, from the Mississippi to the Atlantic, and its value having at all times been abundantly tested, there remains for our conclusion, that it is *NO PARALLEL* AT A SIMPLY EFFICIENT AND VERSYL MACHINE.



VIEW OF MACHINE AS USED FOR SHAPING AND EDGE MOULDING.

### *Variety of Uses.*

The machine represented and illustrated in this pamphlet has been brought out within the last four years, and has been adapted to the *general wants* of the manufacturers and various workers of wood, and is, at the same time, by its peculiar construction, adapted to specialties heretofore only done by hand,

COVERING A GREAT VARIETY, BOTH ORNAMENTAL AND INDISPENSABLE.

*First.* AS A SHAPER, OR VARIETY MOULDING MACHINE, it does all heretofore done by that indispensable machine; working all varieties of mouldings upon the edge of lum-



Specimens of work done on Board's power Moulding Machine.

but regular or irregular; and is constructed as one solid cutter, or upon desire, as the work demands, to allow for construction for such purposes.

The cutters will work when revolving to right, or left, by the use of the reverse motion provided for in the middle shaft and pulleys, thereby obtaining the necessity of two spindles and heads.

**Designs.**—CABINETS, PAINTED, AND GROOVED, are quickly and perfectly formed and moulded to any design upon the surface of wood the which a pattern or form may be furnished for representing Cars, Peacocks, Furniture, Organs, Buildings, Carriages, Coxins, Novel Posts and New Entry, also for raising Plan Grooves, Flutes, &c., intersecting and crossing Dovetail Joints for joining work together, and for all work necessary to be done on the surface of doors, in regular or irregular form. The operator having at all times full control, is able to do all the work in a quick and perfect manner.

By making all crevices in the solid wood, many glue joints are saved; also a large percentage of glue and material, and at the same time giving a better job.

#### THIRTY-THREE PER CENT. MORE LUMBER IS REQUIRED.

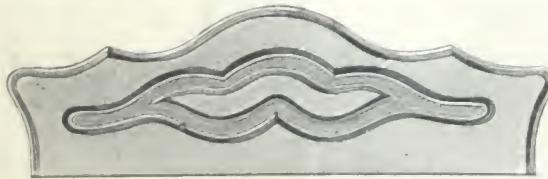
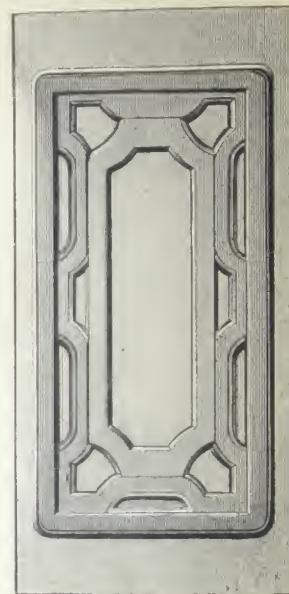
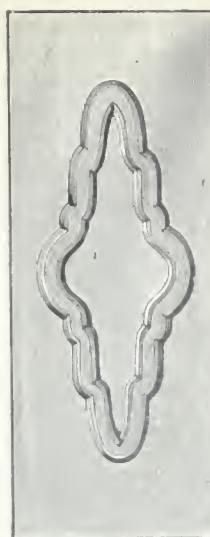
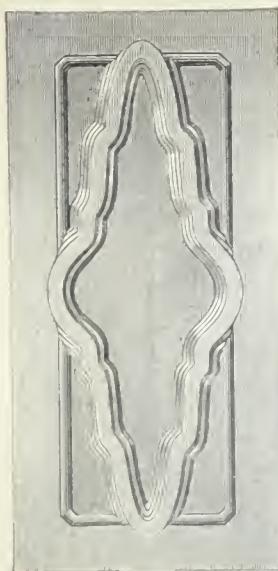
to effect the same resultants by the old method of gluing up, also no operations like a sawing, preparing the material, working over, re-sawing, moulding, and planing, and so on, other process requiring more time than to make a door job by using the facilities afforded by Board's Machine. Every one is aware that work done on the solid wood cannot come to pass by hand usage, or exposure to damp and heat.

#### *Movements of the Machine.*

The gliders of machinery are universal. Any distance can be had in one direction. No sudden stops or compound stops are used, which stops the movement in a great space.

Should the work in hand need to be elaborately done, the patterns are so easily arranged that several figures of different shapes, and at different depths, may be cut, using curves of different methods, effecting an endless variety of decorative designs, all of which, being solid, are of the most imperishable nature.

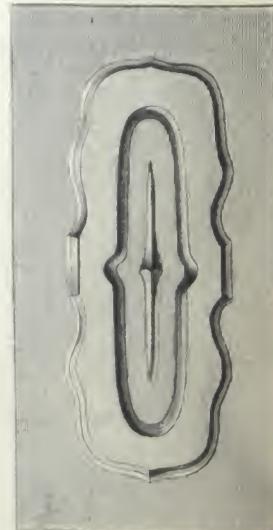
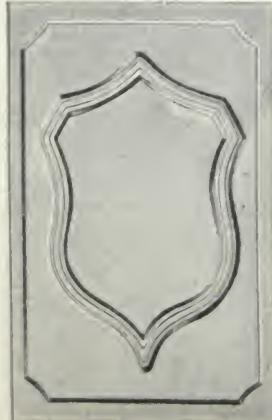
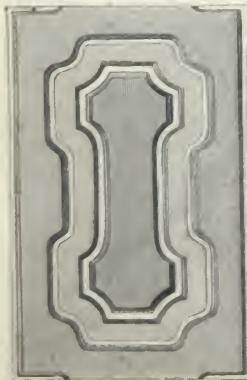
## Specimens of Panels cut by Boult's Moulding &amp; Paneling Machine.



Design for Back of Wash-stand.



Panel for Drawer.





MADE IN WOOD DOORS AND DRAWERS STAINED AND GLOSS FINISH  
BY WILLIAM H. BROWN, BOSTON, MASS.

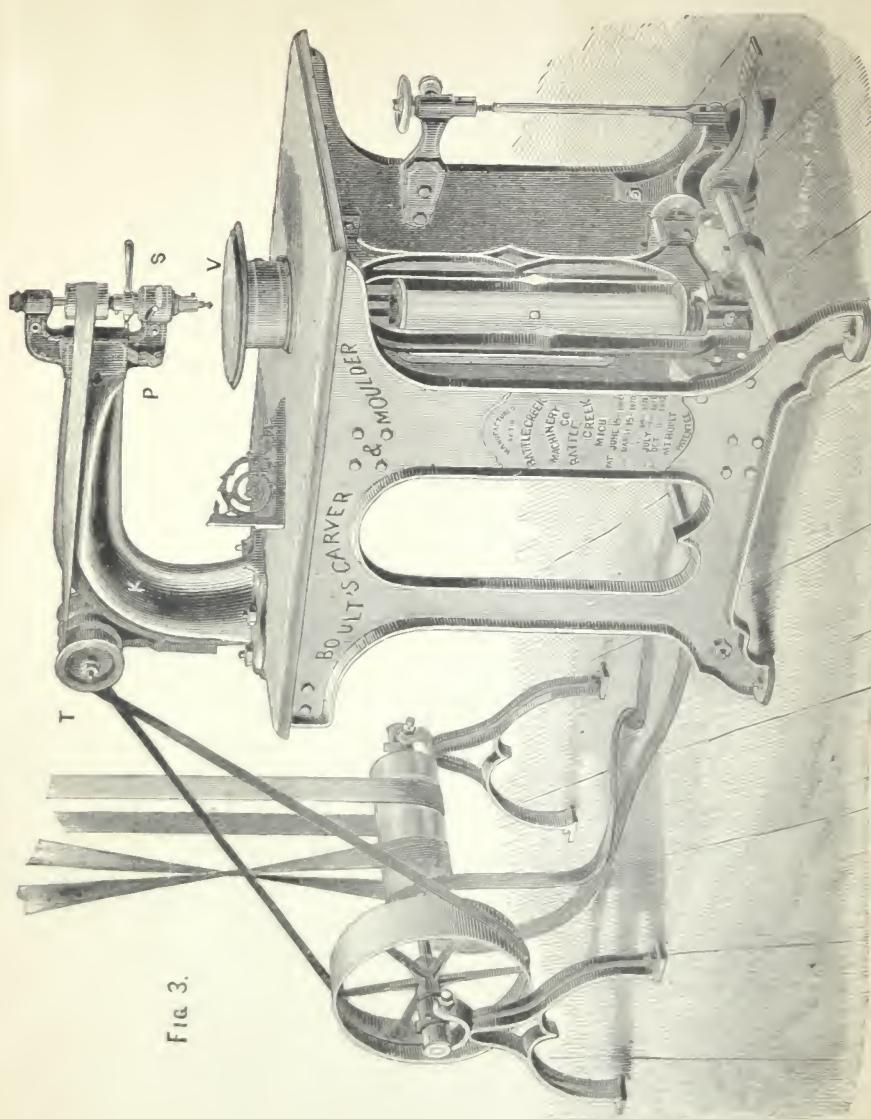
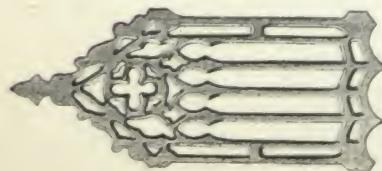


Fig. 3.



This kind of work is Moulded or the Bracket Attachment, as shown in Fig. 5. The most delicate work of the scroll saw can be moulded by this Attachment without injury to its most delicate points.



Fig. 5.—Portion of Moulded Bracket.

By the use of the upper spindle, shown in cut, Fig. 3, p. 8, scroll, bracket, or fret-work, trimmings for balconies and varandahs, drapery for cornices, decoration for churches, furniture, etc., can be done ; moulding all openings down

#### TO ONE-EIGHTH OF AN INCH.

The most delicate points of the most elaborate fret-work are moulded with safety and dispatch. In fact, moulding, with this part of the machine, is carried to the firmest possible extent. As in the other part of this machine, reverse motion is used to keep the knife cutting with the grain of wood.

#### THE USES OF THIS BRACKET ATTACHMENT

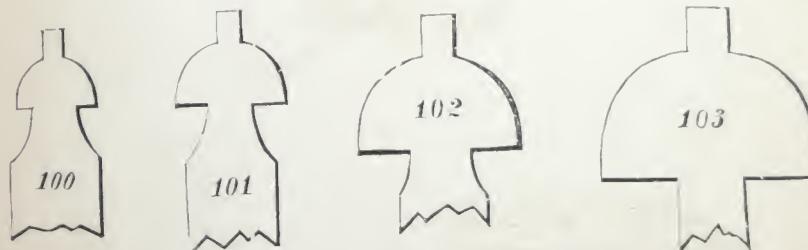
Are of the most varied character, and cannot be enumerated in the limits of this circular. It is adapted to Inlaying, Carving, Tracing, Engraving, Grounding for Carvers and Engravers, Letting in Locks and Hinges on sewing machines, drawers, etc., all of which is done expeditiously, and is of a kind

#### NEVER BEFORE DONE BY MACHINERY.

It is also used for Inlaying Brushes, Carriages, Picture Frames, etc., in variety too great to be here enumerated. No greater facilities are needed for doing any work of the nature above mentioned.

#### CHAIR WORK OF THE MOST ELABORATE STYLE

Is easily done, where hand work has heretofore been used. We do not hesitate to recommend it to *all* workers of wood as the Most Complete Machine known in the business.



Cutters used for Moulding Scroll Work.

Specimens of work done on Boult's Patent Moulding Machine.



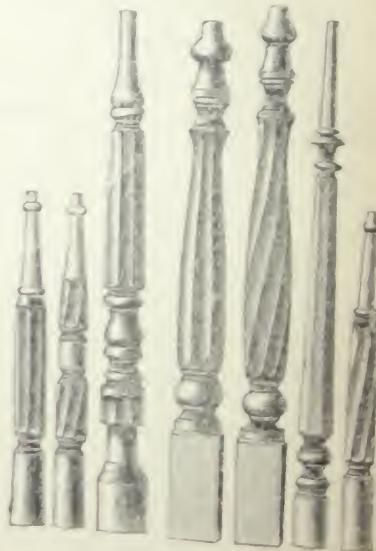
Made by Patzack & Shultz, Chicago.



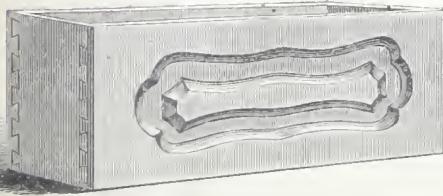
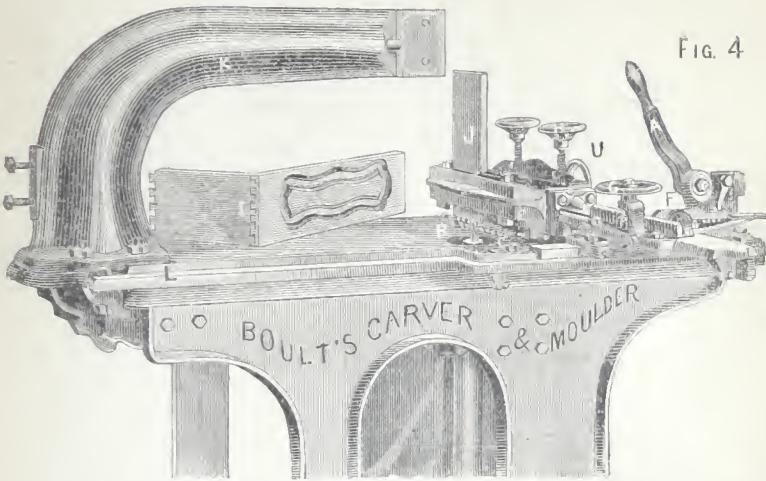
Made by Thayer & Tolsey, Furniture Co., Chicago.



Made by Simmonds & Congdon, Organ Co., Detroit.

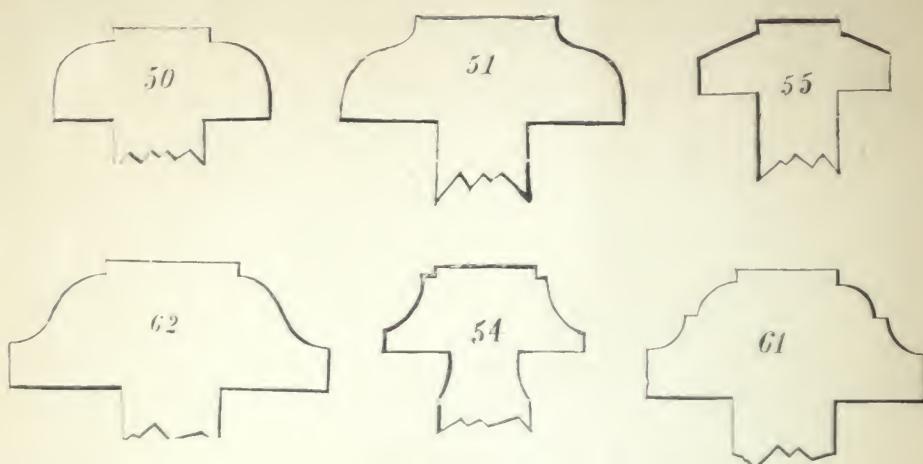


Boult's Patent Moulding Machine, showing Dovetailing Attachment.



These Illustrations show the well-matched Dovetailing which the Boult Machine is capable of doing.

In the Dovetail Attachment we have a simple and perfect arrangement for making a *strong, beautiful, "honest"* Dovetail on any kind or thickness of lumber, and perfectly adapted to all the requirements for such work, cutting both parts, (side and front,) at the same time. If the drawers are narrow, two sides and two fronts can be cut at the same time—and the work is done with dispatch and with scrupulous exactness. But few manufacturers can afford a machine for Dovetailing exclusively, costing from \$300.00 to \$400.00, which must remain unused a large portion of the time, especially when they can obtain a machine adapted to their every day wants for the small price of \$100.00 additional. Should parties wish a machine for Dovetailing exclusively, our Machine with **Dovetailing Attachment**, costs no more than other dovetailers, besides being adapted to numerous other uses. No party working extensively in this line can afford to be without this valuable attachment.



### OUR MOULDING AND CARVING CUTTERS

Are forged and formed from solid steel of best quality, with the moulds all worked on. Formed and freed by our improved process, they cut as free as flat knives, and much smoother. They never bind or burn, and do not lose their shape or mould when sharpened. No time is lost in setting, as in flat knives, and no risk is run in having your hands drawn into the knife by cross-grained lumber.

### OUR PATENT SURFACE MOULDING CUTTERS

Have four cutting edges, and have the facility of cutting when revolving to the right or left—therefore have double capacity—save half the expense of cutters, and much time in changing. They will penetrate the solid wood, and travel in either direction.

As no machine, however well made or designed, can serve a good purpose, or fulfill the object intended, without good cutters, it has been made a special effort of the inventor to render this part of the machine an entire success.

Every cutter, for whatever use it has been adapted, has been made with certain fixed principles, that in order to cut freely, do good work and preserve a good and lasting edge, they must cut a clear and perfect shaving, instead of scraping the wood or reducing the shaving to dust or impalpable powder.

### OUR CUTTERS WORK EASILY AND RAPIDLY,

And are made of the best material in the market, and are designed so as to render their manufacture inexpensive.

We are prepared with the best facilities for filling all orders for cutters on the shortest notice.

Parties ordering cutters will please make a draft, or send sample of mould they wish to make, when their order will receive prompt attention, and the cutters be warranted to work satisfactory.

An assortment of cutters for each line of work furnished with the Machine without extra charge.

*Prices of Booth's Patent Moulding and Dovetailing Machine.*

|  |         |
|--|---------|
| As a Shaping and Edge Moulding Machine.              | £120 00 |
| As a Shaping, Edge and Surface Moulding Machine.     | 130 00  |
| With Bracket Moulding Attachment.                    | 130 00  |
| With Bracket Moulding, and Dovetailing Attachment.   | 150 00  |
| As a Dovetailing Machine alone.                      | 100 00  |
| As a Dovetailing, Edge Moulding and Shaping Machine. | 130 00  |

PRICES OF THE MACHINES SHOULD ALONE DETERMINATE THE PURCHASE OF THE MACHINE.

It pays better for the money invested, being exercised in an application and scope.

It is made for business, and is free from expensive apparatus.

It is complete in all its parts.

Its construction is of the most modern, simple, and durable style.

It is just as complete for either of the kinds of work mentioned as though made for one purpose only.

No time is lost in changing from one kind of work to another, these motives being sufficient to make the most radical changes in the Machine.

Being adapted to a variety of purposes, simple and complete, the expenses of several ordinary machines are equalled in one.

A variety of cutters for each kind of work are given with each Machine.

It is fully protected by patents, and is no infringement on any other Machine.

We do not use Gear's confectioner's guide-board, with the reason of great cost.

The Machines are furnished promptly, and the expenses of patents are always considered.

It is far safer to operate than any two-spindle shaper.

It requires far less power than any two-spindle shaper.

There is no other Machine covering such range and variety of work as this, at a cost.

You cannot afford to do without it.

**NOTE** All orders for Cutters or Cutters should be addressed to Birch Creek Machinery Co., Birch Creek, Michigan.

*Directions for setting up and using Booth's Patent Carving, Planing, Moulding and Dovetailing Machines.*

This Machine is designed for removing stock or great excesses of base dimensions, and for Carving or Planing on the surface of bodies any designs, according to the form or pattern used.

Shaping, or Trimming, or more appropriately, Variety Shaping.

Moulding Scroll or Leaf Work, Tracing and Engraving, and

Dovetailing Drawers, Boxes, etc.

In all cases a convenient and judicious arrangement of the Machine, and in use from a belt or the rear of the rear of the Machine, and connected to a three-inch belt (quarter twist) from the long pulley on the spindle of the Machine to the large pulley on the counter-shaft. There are two right and two loose pulleys on the counter-shaft, as shown in cuts, to which the power is communicated from the first shaft. It will be observed that two belts are used for this communication, one of which is curved, the other straight, either of which drives the Machine when run on the right pulley. One drives the Machine to the right, the other to the left, as may be desired. One sufficiently is required to move both belts at the same time.

## REQUIRED MOTION.

The pulleys on counter-shaft are 2 inches in diameter, and should make 765 revolutions per minute. It is necessary, of course, that the Moulding should be set square with the counter-shaft and the draft, should set level, and when first started should be well oiled. Special attention should be paid to the base pulleys. The pulley on base-shaft should have 17½ inches dia.



## PANELING AND STAMPS.

In arranging the Moulds for paneling, or cutting designs in the solid wood, it is first necessary to prepare a form, or prototype, of the work to be executed. It is made by simply sawing out the desired shape, or figure, from a straight, common board, as shown above, and according to the following rule:

## RULE FOR MAKING PATTERN OR PATTERN-LODGE FOR PANELING.

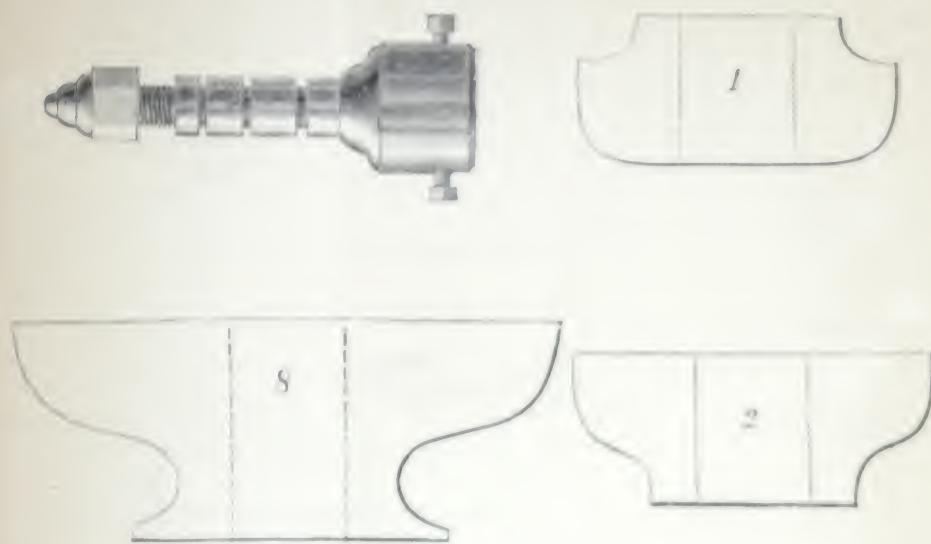
As the centre of the guide point is in line with the centre of the cutter which holds the groove, it is necessary to make the pattern, or opening, when used separately, or the double, dimensions of an inch (which is one half the diameter of the guide point), *added* to the radius of the groove all round.

When the outer edge of the pattern is turned against the guide point, the pattern should be three-eighths of an inch smaller than the centre of the groove, for the reason that three-eighths of an inch being half the diameter of the point, an allowance made for the loss in the form will cause the work being done according to the design will not be irregular.

## RULE FOR CALCULATING MOTION OF SHAFTS AND PULLEYS, AND THEIR SIZE.

When the *size* of *driven* pulley and *motion* of *driving* shaft are given, to find size of *driving* pulley. Multiply the *motion* of the *driven* pulley by its *diameter*, or inches, and divide the product by the *motion* of the *driving* shaft, the quotient will be the *diameter*, in inches, of the *driving* pulley.

The *motion* and *diameter* of *driving* pulley and *diameter* of *driven* pulley given, to find the *size*. Proceed as in the above proportion, and divide by the *diameter* of *driven* pulley, the result will be the *motion*.



## OPERATION OF MACHINE AS A SHAPER AND FRIEZE.

When it is desired to use this Machine for Shaping or Frizing, it is only necessary to place the long or stem chuck on the main spindle of the Machine, which is secured by set-screws on the flat spot on one side of the spindle. The cutter is then slipped on to the chuck. Rings, or loose collars, are provided on the chuck, so that the cutters may be given any position in regard to height on the chuck by placing the collars above or below the cutter. The whole are secured by the nut at the end of the chuck. The cutters are made of solid steel, turn the desired mould, and cut either way, and are sharpened on the inner or flat side; the outer or rounded side should not be changed.

The Machine, as shown in Fig. 2, is arranged for Paneling and Lining Designs on the surface. The small chuck is placed on the spindle, the paneling cutters, No. 64, are inserted in the chuck. The guide-head C is adjustable, going down, to the work by means of screw and hand wheel at N. The cutter is adjusted by the screw rod H, to come as far above the top of the table as is desired to penetrate into the work, then by pressing the foot on the foot-latch N, the spindle is let down, carrying the cutter below the top of the table out of the way. The work, with the pattern marked, is placed on the table, the guide point A is then lowered by means of the screw at N until it enters the pattern, and the pressure plate O comes in contact with it. A sufficient amount of pressure is brought to bear, to enable the operator to hold the work firmly in position. Motion being given to the spindle D, the operator then presses his foot upon the lever F, which brings the cutter up into the work, as far as previously adjusted, when the foot-latch N flies into the catch at the elevation K attained, and holds it there. The pattern is then moved around against the guide point A, until the work is complete.

The cutter being moulded, the work is finished when it leaves the Machine, and as cutters for this work are made with double cutting edges, and will work equally well when revolving in either direction, the cutting can always be done with the grain of the wood.

Should it be necessary to elaborate the work, as shown in some of our cuts, it is only necessary to use successive forms, or patterns of different designs on the same panel. Each design can be cut with a different style of mould, and at a different depth, producing styles of work limited only by the skill and taste of the operator. *The largest circumference and greatest depth should be cut first*, the next largest circumference and depth should succeed, and so on as far as desired.

#### FOR MOULDING, SCROLL, OR FRET WORK.

Fig. 3, p. 8, illustrates the Machine as arranged for moulding Brackets, Scroll or Fret Work, Inlaying Brushes, Engraving, Routing, Grounding, and for doing fine moulding of every description. This arrangement consists of a spindle head P, placed on the arm as shown, and driven by the belt passing from the countershaft over the friction pulleys T, on to the pulley on small spindle. It is only necessary, when arranging the Machine for this work, to take off the belt from the large pulley and put on a light belt running to the top spindle. This spindle is moved up or down by means of a pin inserted in the brass box, and working in a cam slot in the head. The handles attached to the box is brought around, causing the pin to move up in the slot, carrying with it the spindle. This arrangement is especially convenient in moulding scroll work, as it enables the operator to get at the inside openings. After the work is in position, the cutter is lowered into the opening by the same means that it was raised. When the work is finished, the spindle is again raised, and another opening is brought into position, and so on until the work is finished, all of which is done without stopping the motion of the Machine. The cutters are made with a guide-point, which can be very much reduced in size, and will follow the smallest opening of a scroll-saw. No forms or patterns are necessary. The small table V, shown as setting on the Machine in Fig. 3, and upon which the work is laid, is adjustable up or down, by turning the top around, causing it to rise or fall as may be necessary to accommodate the different thicknesses of stuff to be worked. By this arrangement stuff may be worked from 3-16 to 2 inches in thickness. The same cutters can be used on the lower spindle if thick stuff is to be worked.

#### TO DO INLAYING,

A thin form or pattern is used of the desired shape, affixed to the work. A small router is used, having a shank equal in size, which is used as a bearing, or guide, for the pattern, which being on the top of the work the cutter is let down through the pattern into the work the desired depth.

The lower end of the main spindle runs upon a tempered steel screw. The end of the spindle is also tempered, and is made tapering, and fitted to a brass bush, which is set in the lower box a little above the end of the spindle, thus forming an oil box, or chamber, at the extreme end of the spindle, where the two steel points come together.

er. The oil passes directly to the chamber through a tube on the outside. The object of the taper fit of spindle and brass box is to prevent side, or lateral motion from wear of the parts. Whenever such motion occurs the box should be raised by loosening the set bolts by which it is held on to the slide, which will allow the box to be raised until there is no lateral motion. It may be necessary to lower the step screw as much as the box is raised. This necessity can be ascertained by observing the adjustment of the spindle endwise. The construction of this part of the Machine is such that the step may always be kept in perfect order.

#### DIRECTIONS FOR PUTTING ON AND WORKING THE DOVETAILING ATTACHMENT.

The bed plate clamps on the left-hand side of the top of the Machine, and is placed (by set screw on the under side) so that the cutter B will enter equidistant between the fingers C of the carriage as it is moved up. Adjustable stops are placed on this bed plate—before and behind the slide—to regulate the stroke. A front and side of a drawer, or two of each, if narrow, may be cut at the same time. The ends J are placed upon the fingers C, and held by lateral compression screws. The fronts are placed horizontally in the bottom of the carriage, and held by vertical compression screw H. Adjusters E are provided at each side of the carriage to regulate the position of the lumber, and give the desired relish. The plan of the dovetailing being to make each part (pin and mortise) both at the same time and equal in size (both being of the same size as the cutter). In order to accomplish this, the cutter must be set to work up into the lumber about  $\frac{1}{2}$  of an inch, (that being the dividing line of the cutter,) which makes the pin and mortise equal. A slight variation of the cutter, up or down, makes the fit tight or loose, as desired.

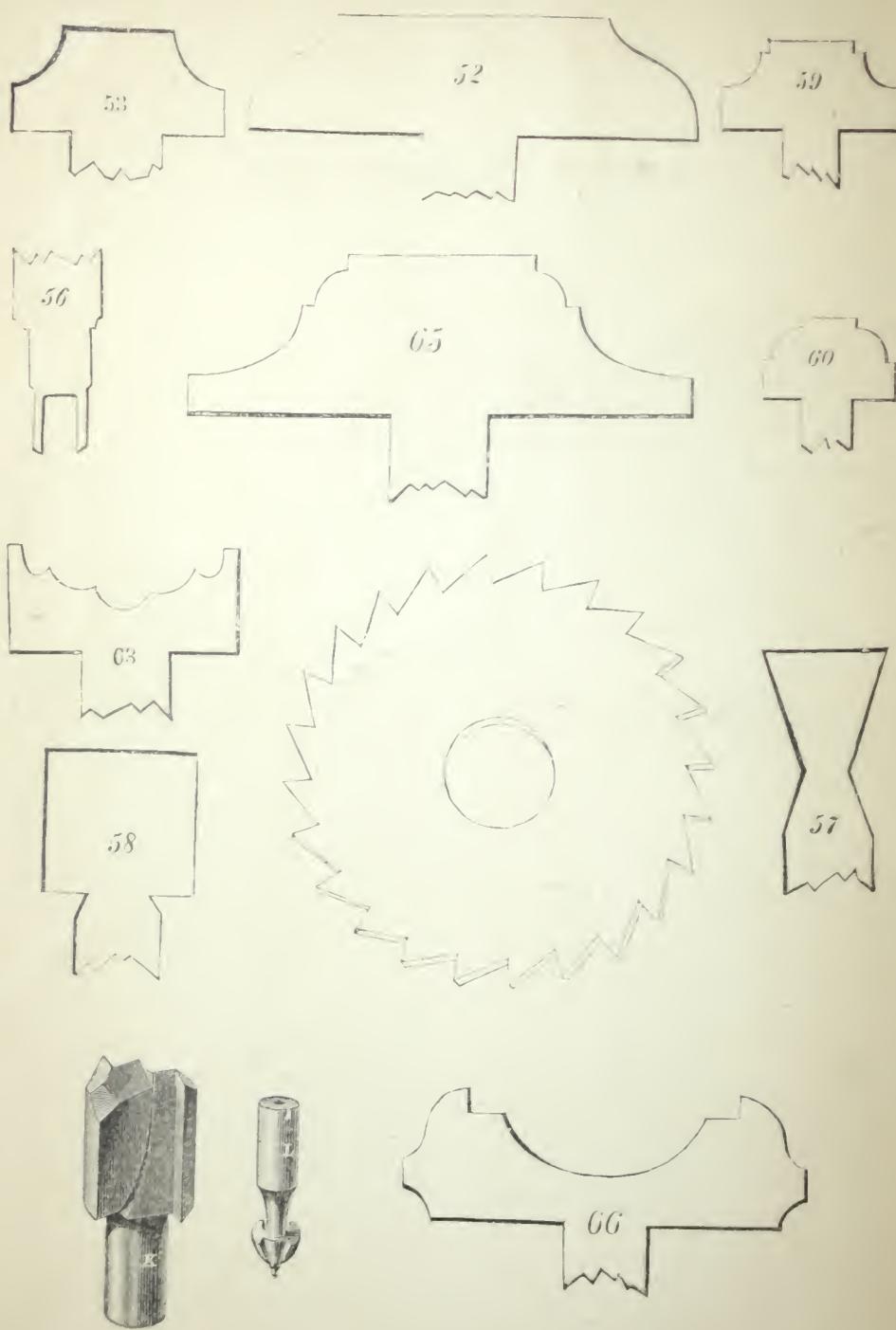
#### THE RELISH MAY BE REGULATED AS DESIRED

By the position of the adjusters. The slip pin in the adjusters can be regulated to make side and front come even on the edge. The adjustment for cutting the backs is effected by placing in position a drawer side, after having been cut to match the front, the same as when cut, then place the pieces for back in position, letting the edge come even with the lower corners of the outside, or first pin on the drawer side, then slip the adjusting slip-pin up to the edge of the back, when the Machine is ready for work.

The cutting should commence when the latch is in the second notch from the end of the spacer. In all cases both parts which serve to form a corner are cut at the same time. When once adjusted the slip-pins may be marked so as to readily set the Machine for cutting either fronts or backs, with the corresponding sides, in a few moments.

With right hand on lever A, and left hand on hand-wheel G, the operator has control of carriage. With right hand move it forward, and with the left hand move it laterally. As the carriage moves backward, the dog M hits the latch F long enough to allow the carriage to pass, when it drops and catches into the next notch, and holds it until another pin and mortise are cut.

Cutters used for Surface Moulding, Routing, Grooving, Dovetailing, Cutting Rosettes, &c., &c.



## TESTIMONIALS.

Akron, Ohio, June 14, 1873.

MESSRS. BURNHAM & HYDE,—

Gentlemen,—Enclosed we hand you check of \$142, in part payment of the Boult's Moulding, Carving, Paneling and Dovetailing Machine, we bought of you. The Machine gives entire satisfaction.

Very Respectfully,

MILLER, THOMAS & CO.

Grand Rapids, Mich., Feb. 13, 1873.

MESSRS. BURNHAM & HYDE,—

Gents:—Boult's Moulder and Carver which we bought of you we have been running over a year. We have used it most of the time on dovetailing. For that and other work for which the machine is adapted, it gives entire satisfaction.

Respectfully,

BERKEY & GAY FURNITURE CO.

Office Pullman Car Mfg. Co.,

Detroit, Mich., Jan 26, '73.

MESSRS. BURNHAM & HYDE,—

Gentlemen,—This is to certify that we are using one of Boult's Carving, Paneling, Irregular Moulding and Dovetailing Machines, and are well pleased with its working, and consider it a paying investment for any Cabinet, Car, or Joiner shop that is doing business.

Yours truly,

C. F. ALLEN,  
Gen'l. Manager.

Office of Howe Machine Co., Peru,  
Ind., Nov. 7, 1872.

MESSRS. BURNHAM & HYDE,—

Gents:—We are very much pleased with Boult's Patent Moulding Machine purchased of you last spring. We have used it for carving and moulding, and think it has no equal for the kind of work. The cutters we regard as superior to any we have ever used. In fact, we are perfectly satisfied with the machine, and cheerfully recommend it to any one wishing a machine of its kind.

Yours truly,  
E. D. OLIN Manager.

Ypsilanti, Mich., Sept. 9, 1873.

Battle Creek Machinery Co.:

Gents:—In answer to your inquiries we would say that we have been running one of Boult's Patent Moulding machines for the past three years, and are much pleased with it. It does its work neatly and quickly, and is, we believe, all that is claimed for it.

Very Respectfully,

EDWARDS, MCKINSTRY & VAN CLEVE.

Fort Wayne, Ind., March 23, '72.

MESSRS. BURNHAM & HYDE,—

Gents:—So far as we have tried your machine, we are very much pleased with it, and we are certain that it will be a great saving to us in time, labor and material.

COCHRANE, HUMPHREY & CO.,  
Dealers in Sash, Doors, Blinds, &c.

Office Derrick & Felgemaker Pipe Organ  
Co., Erie, Pa., Feb. 15, 1873.

MESSRS. BURNHAM & HYDE,—

Gentlemen,—Yours of the 7th inst., asking how we like Boult's Machine, is at hand, and in reply we state that the Machine is fully up to your claims for it; it is substantially made, well finished, and works well. The variety of work to which it is adapted, the perfection in finish of same, quick adjustment for various classes, all make it the most desirable machine of the class known to us. If we did not have work to run one more than six hours per week, we would not do without it for twice its cost.

Yours respectfully,

S. L. DERRICK,  
President and Gen'l. Superintendent.

Detroit, Nov. 4, 1872.

MESSRS. BURNHAM & HYDE,—

Gentlemen:—Since receiving Boult's Patent Carving Machine, we have kept it constantly running as a panel raiser, and it gives us good satisfaction. Your cutters we find superior to any others we have used; and we cheerfully recommend both Moulding Machine and cutters to other manufacturers.

Yours very truly,

SIMMONS & CLOUGH, ORGAN CO.

Cleveland, Ohio, Feb 14, 1873.

MESSRS. BURNHAM & HYDE,—

Gents:—Boult's Moulding Machine, started in our works in December last, we have used as yet only for special routing work in hard wood. In this work it gives us entire satisfaction, quickly and accurately doing and finishing what before had to be done by hand, at great expense of time and labor, and with less uniformity of finish.

H. T. CLAFLIN,  
Supt. Cleveland Bridge and Car Works.

St. Louis, Mo., Feb. 11, 1873.

MESSRS. BURNHAM & HYDE,—

Gents:—In regard to your so-called Boult's Carving and Dovetailing Machine, I would say that in December, 1871, I bought one of them, and used it a year with perfect success. In December, 1872, I concluded to buy one more of them, and as I write this, both are in full motion. They are, without blowing, the two best paying machines in my factory.

You're respectfully,  
JOSEPH PETERS,  
Furniture Manufacturer.

Cincinnati, March 29, 1872.

MESSRS. BURNHAM & HYDE,—

Gentlemen:—Our experience with Boult's Patent Carving and Moulding Machine has been, so far, entirely satisfactory.

Respectfully,  
THOS. GILPIN & CO.,  
Proprietors Miami Planing Mill.

## BOULT'S MOULDING, CARVING

Wabash, Ind., Feb. 12, 1873.

MESSRS. BURNHAM & HYDE,—

Gents:—We have been using Boult's Patent Carver and Moulder for some time, and find it a very fine machine for our business. We use it mainly for dovetailing and moulding the fronts of drawers, and it works like a charm.

Yours respectfully,

T. F. PAYNE & CO.,  
Furniture Manufacturers.

South Bend, Ind., Aug. 28, 1873.

Battle Creek Machinery Co.,—Gents:

Your favor of the 26th is at hand, and contents noted. We have one of Boult's Moulding and Paneling Machines in our factory, and consider it one of the best Machines of the kind in the market. Your solid steel cutters also give very good satisfaction. Being freed they work smoothly and easily.

Very Respectfully,

KNOBLOCK BROS. MF'G. CO.

South Bend, Ind., Aug. 18, 1873.

Battle Creek Machinery Co.,—Gents:

Please find enclosed P. O. Order for \$8.00 to balance account of July 24th. The cutters please us very much. Shall order others as we want them.

Respectfully yours,

SOUTH BEND FURNITURE CO.

South Bend, Ind., July 31, 1873.

Battle Creek Machinery Co.,—Gents:

Enclosed find P. O. Money Order for invoice of July 28th. We like the cutters well, and shall hereafter send you our orders.

VARIETY BRACKET WORKS.

Detroit, Mich., Aug. 19, 1873.

Battle Creek Machinery Co.,—Gents:

Yours of the 18th is at hand, inquiring as to the use of Boult's Patent Moulding, Carving, Paneling and Dovetailing Machine in our factory. In reply we would say that we have been using the so-called Machine in our factory over a year, in which time we gave it a fair trial in all its different work, and we can recommend it as superior to any other Machine of the kind. The cutters are far better than any others in use. It is the best paying Machine in our factory. We could or would not do without it.

Yours Respectfully,

SHEFFERLY BROS.

Erie, Pa., Aug. 25, 1873.

Battle Creek Machinery Co.:

We have been using one of your Boult's Patent Moulding Machines for several months, and take pleasure in saying it has given us good satisfaction. The solid steel cutters work very well.

Yours Very Respectfully,

ERIE CHAIR CO.

Davenport, Sept. 1st, 1873.

Battle Creek Machinery Co.:

I have been using Boult's Carver and Moulder for more than a year and a half, to my great satisfaction. It does all you say it will, and more. The purposes to which it may be applied, aside from moulding, carving, paneling, and dovetailing, are numerous and important.

Yours Respectfully,

DANIEL GOULD.

St. Johns, Mich., April 4, 1872.

MESSRS. BURNHAM & HYDE,—

Gents:—We take pleasure in recommending Boult's Carver and Moulder as a perfect success in the capacity for which it is intended by the manufacturers, and find it much more snap and less liable to get out of order than any other machine we have examined. The cutters are an invaluable attachment with which to do fine work.

Yours truly,

D. S. FRENCH,  
See. St. Johns Manufacturing Co.

Bonaparte, Iowa, Aug. 30, 1873.

Battle Creek Machinery Co.:

We will say in reply to yours that the shaper gives entire satisfaction. The bits of your make cut the best of any we have used. The dovetailing arrangement, as far as we have used it, works well. The quality and quantity of work is satisfactory.

Respectfully Yours,

ENTLER & MEEK.

Chicago, Sept. 1st, 1873.

Battle Creek Machinery Co.:

We the undersigned have used one of Boult's Patent Moulding, Carving, Paneling and Dovetailing Machine for the last two years, and we recommend the same as one of the best Machines we have ever seen. Also the solid steel cutters we can recommend as the best made. We prefer them to any others.

Yours truly,

PATZACK & SHULTZ.

Chicago, July 12, 1872.

MESSRS. BURNHAM & HYDE:

Gents:—Your favor of 10th inst. is at hand, and contents noted. We have had one of Boult's Moulding, Carving, and Dovetailing Machines in use in our shops for over a year, and now pronounce it to be a most valuable assistant in all machine shops for wood work. We consider the whole arrangement a success. We also think your cutters for moulding, routing, and dovetailing, as much of a success as the machine itself. We shall be glad at any time to show the machine in work to any person you may send here.

Yours, etc.,

CHAS. J. MCALISTER,  
Sup't. Thayer & Tobey Furniture Co.

Indianapolis, Ind., Feb. 14, 1873.

MESSRS. BURNHAM & HYDE,—

Gentlemen:—We have used Boult's Patent Moulding, Carving and Paneling Machine for the last six months with perfect satisfaction. It does all the work that is claimed for the machine and cutters.

Respectfully,

SPIEGEL, THOMAS & CO.

Chicago, March 5, 1872.

MESSRS. BURNHAM & HYDE,—

We are well pleased with your machine as a dovetailer, but have not tried its moulding capacity yet.

Respectfully,

J. KOENIG & CO.,  
Furniture Manufacturers.

Louisville, Ky., March 30, 1872.

MESSRS. BURNHAM & HYDE,—

Gents:—We cheerfully say to you that Boult's Patent Carving and Moulding Machine we have in use excels the recommendations of the patentee, and our own expectations of its usefulness when we purchased it. We use it for paneling wide bottom rails of sash, or ornamenting door panels, drawer fronts, brackets, scroll balusters, tracery, and a variety of other work, all of which has been done so much better and cheaper than could be done by any other machine, that we have been able to add to the enrichment of our styles of work without increasing the cost. We are highly pleased with the machine, and will take pleasure in recommending it whenever called upon to do so.

Very truly yours,

DAVIS, STORTS & CO.,  
Proprietors Kentucky Planing Mill.

Dayton, Ohio, March 28, 1872.

MESSRS. BURNHAM & HYDE,—

Gents:—I have been using Boult's Carving, Moulding and Dovetailing Machine, and am well pleased with it in all its various workings. As regards the moulding of brackets and fret work I think it excels all other machines.

Very truly yours,

D. F. GIDDINGS,  
Mechanic for Nat. Asylum for Disabled Vol. Soldiers.

South Bend, Ind., April 9, 1872.

MESSRS. BURNHAM &amp; HYDE.—

Gents:—I am in receipt of your letter of the 23d ult. In reply would say that I find your Moulder and Carver to be indispensable in the manufacture of cabinet furniture. I consider the machine better adapted to that class of work than any other machine in the market, tailoring a great variety of work, being easily adjusted to the different kinds, and for paneling and ornamenting bureaus, stands, etc., I find it much ahead of other machines with which I am acquainted. Wishing you much success, I remain,

Yours truly,

JOHN G. HILLING,  
Manufacturer of Furniture.

Chicago, March 23, 1872.

MESSRS. BURNHAM &amp; HYDE.—

Gents:—Bout's Carving and Moulding Machine we bought of you works nicely. It is easily used, being simple, and yet does all we require. Cutters work well. The machine is well made, and gives abundant satisfaction.

Very truly yours,

H. S. CARTER & CO.,  
General Furniture Manufacturers.

Milwaukee, Wis., March 25, 1872.

MESSRS. BURNHAM &amp; HYDE.—

Gents:—Your favor of the 21st inst., asking us to the use of Bout's Carver and Moulder in my factory, is at hand. I have much pleasure in writing that during the time we have had the machine in use, for some months past, I find it gives perfect satisfaction for such, door and blind work, and fully carries out all that has been represented for it.

Yours truly,

JOHN HILLING,  
Sash, Door and Blind Manufacturer.Office Excelsior School Furniture Mfg's  
Co., Eaton, Ohio, Nov. 5, 1872.

Gentlemen:—We beg leave to say that we are much pleased with Bout's Patent Moulder and Carver we got of you, and we take pleasure in recommending it.

Very truly yours,

W. M. BROOKES,  
Genl. Dealer.

Lima, Ohio, March 23, 1872.

MESSRS. BURNHAM &amp; HYDE.—

It is with pleasure that we fully recommend Bout's Carving and Moulding Machine as being the most perfect and generally available of any machine we have ever used. Could not do without it.

Respectfully,

NEWELL & HURRITT,  
Wholesale and Retail Furniture Manufacturers.

Chicago, May 20, 1872.

MESSRS. BURNHAM &amp; HYDE.—

Gents:—Your favor inquiring about my success with the Bout's Carving and Moulding Machine, is at hand. In reply would state that I have been perfectly successful with it in all branches of my business, and find it will do all you claim for it. I could not do without it.

Respectfully,

F. H. WOLFINGER,  
Manufacturer of Sewing Machine Furniture.

Corry, Pa., Sept. 11, 1872.

Battle Creek Machinery Co.

Gents:—In regard to your machine, we like it very much, and consider it the best machine we know of for the purposes intended.

Very respectfully,

CORBY FURNITURE CO.

South Shaftsbury, Vt., Aug. 28, 1872.

Battle Creek Machinery Co.

Gentlemen:—Your favor of 20th inst., at hand. We are very well satisfied with Bout's Patent Moulding, Carving, and Dovetailing Machine. We have used it for paneling, dovetailing, and shaping, and for these we like it very much.

Yours,

THE EAGLE SQUARE CO.

Mishawaka, Ind., July 19, 1872.

MESSRS. BURNHAM &amp; HYDE.—

Gents:—We have been using, for some time, one of Bout's Carving, Moulding and Dovetailing Machines and find it to be very useful and economical in the manufacture of furniture. The Dovetailing cannot be beat for making perfect and strong joints. The knives are much the easiest and smoothest working of any we have found.

Yours truly,

I. HARVEY,

See Mishawaka Furniture Co.

Cincinnati, Ohio, Nov. 6, 1872.

MESSRS. BURNHAM &amp; HYDE.—

Gentlemen:—I am well satisfied with your Machine, as a moulder for straight or crooked, light or heavy work.

Respectfully yours, HARVEY JAMES,  
Ridge, Phoenix Mill, Do and Sash Cabinet Brother.

Whiteboro, N. Y., Aug. 29, 1872.

Battle Creek Machinery Co.

We take pleasure in saying that your Bout's Patent Carving, Paneling, Moulding, and Dovetailing Machine gives entire satisfaction. It has been in constant use in one of the several establishm'ts since last December. For range of work it is unsurpassed, doing carving in various styles, variety of moulding of any kind, paneling in any shape desired, and making dovetailing and dovetailed joints. The beauty, great variety, and good quality of its work, at once make it a favorite machine. Your solid construction has been tried by us with equal satisfaction. Their durability is unquestionable enough to insure their popularity. Having your machine may enable us to receive the favor of your well merited, we are.

Very truly yours, SUTTON &amp; QUINLEY.

Jamestown, N. Y., Aug. 21, 1872.

Battle Creek Machinery Co.

Yours of the 18th inst. conveys our opinion of the Bout's Carving, Moulding, Paneling and Dovetailing Machine. We are glad of the opportunity to say that it entirely accomplishments many of the most difficult kinds of wood working, and that in our establishment it has already more than paid its cost. Besides entitling us to offer our customers goods of more value at designs at lower prices. It is one of those machines that, associated with intelligent management, will be constantly put to new uses, and because we regard it as a "new machine on a family." We are heartily anxious of a wood working business at reasonable prices that does afford us the maximum.

Yours etc., J. C. &amp; W. BIRKEDALE CO.

St. Joseph, Mo., Aug. 2, 1872.

Battle Creek Machinery Co.

We send notice for England as follows:—We think we have described the machine work on your machine. Bout's Patent Carver and Moulder which has been done down on the 15th. We send our carver and moulder three inches wide the first one, and in four weeks to come, and make a good first time price. We will send you photographs of \$2000.00 each so that we may discuss a little on the price, for a few days.

Yours respectfully,

A. E. M. BENNETT.

Quincy, Ill., July 16, 1872.

Messrs. Burnham &amp; Hyde.

Enclosed find draft for forty nine dollars and 80 cents, for a number of work for your 25. We could afford for our two 25.00 to be shaker. Cutters give entire satisfaction.

Yours truly, F. W. JAMES &amp; SONS.

Cleveland, Sept. 4, 1872.

Battle Creek Machinery Co.

Gents:—We do not know of any Moulding machine in the market that we should like as well as well as we do yours, i. e., Bout's Patent. We enclose \$2.00 insurance for return.

Respectfully, PHILPOTT &amp; CAMP.

## BOULT'S MOULDING, CARVING

Waterloo, Ind., Sept. 24, 1873.

Battle Creek Machinery Co.:

Gents:—The Boult's Patent Moulding Machine we bought of you is a tip-top machine. It is well made, runs well, and does good work. The cutters work smooth and free, and keep a good edge. We are well pleased with it in every respect, and recommend it with pleasure to any one wanting an up-right Moulding or Dovetailing Machine. It will do more and better work, and with less power, than any machine we ever saw.

Yours truly,      BASSETT & MCANALLY.

Hillsdale, Mich., Sept. 20, 1873.

Battle Creek Machinery Co.:

Gents:—I have given Boult's Patent Carving, Moulding, Paneling and Dovetailing machine a fair trial. It is wonderful, the amount of work we are turning off with it. Almost every day we find some new use for it. My foreman said the other day it would do anything but talk. The solid steel cutters are great improvement. They run steady, and leave the work much smoother than other knives.

Truly yours,      HORACE BLACKMAR.

Chicago, Sept. 22, 1873.

Battle Creek Machinery Co.:

Gents:—Your favor of the 18th ult., asking our views as to the merits of Boult's Carving, Paneling, Moulding, and Dovetailing Machine, was duly received. In reply would say that during the time (over seven months) we have had the machine in use, we have found it indispensable in the manufacture of furniture. We are using it in nearly all of its various workings, and it gives us perfect satisfaction; especially in surface paneling and dovetailing it cannot be excelled by any other machine in use. We would not be without one. Wishing you much success, we remain,

Yours very truly,      A. MATUSKA & CO.

Minneapolis, Minn., Sept. 1, 1873.

Messrs. Burnham &amp; Hyde:

Gents:—Your favor received, and contents noted. As you are aware, we have sold but one of your machines, but we can say that one has given entire satisfaction, and we have in view others who will probably purchase. We think it a machine well adapted to the work it is intended for, and know of no instance where it has not given satisfaction.

Yours truly,      WALKER BROS.

Office Battle Creek Table Co.,

Battle Creek, Mich., Sept. 1, 1873.

Battle Creek Machinery Co.:

Gentlemen:—When we first put in your Boult's Patent Carving, Moulding, Paneling and Dovetailing Machine, there was not a man in the factory who understood how to run it; but this difficulty has been obviated, and the machine has performed to our entire satisfaction all that we have required of it. We are glad of the opportunity of saying that as a wood-working machine, and for general and ornamental work, it stands unrivaled.

Very respectfully,      GEO. H. ROWELL,  
Manager.

## A Partial List of Names and Firms that may be Referred to.

Barker, Wilbur & Co., Laredo, Mich.  
D. W. Starkey, Batavia, Ills.  
Ills. Central R. R. Co., Chicago.  
Sturgis Manufacturing Co., Sturgis, Mich.  
Hubbard Bros., Middletown, O.  
Zerk, Mueller & Co., Mfg. Co., Toledo, O.  
Lager Bros., & Dugan, Wabasha, Minn.  
Childs Bros., Dayton, O.  
Phoenix Mfg. & Co., Grand Rapids, Mich.  
B. & M. R. R. Co., Burlington, Iowa.

Delphos, O., Aug. 26, 1873.

Battle Creek Machinery Co.:

Gents:—We are using Boult's Patent Moulding, Carving, and Paneling machine, and are highly pleased with it. It certainly is the most important machine in our establishment, and we know that it will do all that it is recommended to do in every particular. The same may be said of your steel cutters, as the machine would be useless without them.

Very respectfully,      J. W. FEELY,  
Supt. Delphos Union Planing Mill.

Chicago, Aug. 19, 1873.

Battle Creek Machinery Co.:

Gentlemen:—Your favor of the 18th received. We have used one of Boult's Carving and Moulding machines for about one year, having it in operation nearly all of that time, and on a variety of work, principally moulding drawer fronts, and making dovetail joints, and also beading glass-frames. We are well pleased with the machine, and find it performs all its work satisfactorily.

Yours,      SWAN, CLARK & CO.

Chicago, Sept. 17, 1873.

Battle Creek Machinery Co.:

Gentlemen:—After a thorough trial of Boult's Patent Carving, Moulding, Paneling and Dovetailing machine in all its different specialties, it affords us pleasure to state that it fully meets our requirements in every respect, doing its work quickly and well. The solid steel cutters do excellent service, and we should hardly know how to do without them or the machine. Wishing you every success we are

Yours truly,      SUGG & BEIERSDORF,  
Furniture Manufacturing Co.

Cortland, N. Y., Sept. 16, 1873.

Battle Creek Machinery Co.:

Sirs:—We are running one of Boult's machines as a shaping, paneling, and dovetailing machine. We are in every respect satisfied with it. It does to perfection all that it is advertised to do, and many other things "not in the bill." It changes so readily from one kind of work to another that we keep it in constant use.

Respectfully yours,      HAYES & DELLOW.

Huntsville, Texas, Sept. 19, 1873.

Battle Creek Machinery Co.:

Gents:—In reply to yours of the 20th inst., we will say that the Boult's Patent Moulding, Carving, Paneling and Dovetailing machine purchased from you gives entire satisfaction. It does all that is claimed for it.

Respectfully,      WARD, DEWEY & CO.

Guelph, Ontario, Aug. 28, 1873.

Battle Creek Machinery Co.:

Gents:—Yours of Aug. 25th is received. We find the Boult Patent Carving, Paneling and Dovetailing machine very useful to us, being easily changed from one class of work to another, and doing its work well and expeditiously. The cutters in most cases work first-rate. We like the machine very much.

Yours truly,      BURR & SKINNER,  
Cabinet Makers.

N. W. Fence Co., Minneapolis, Minn.

A. H. Andrews &amp; Co., Chicago, Ills.

Cincinnati Collin Co., Cincinnati, O.

Feltz Bros., East Saginaw, Mich.

C. H. Prange &amp; Bro., St. Louis, Mo.

Bennett Bros., Mfg. Co., Louisville, Ky.

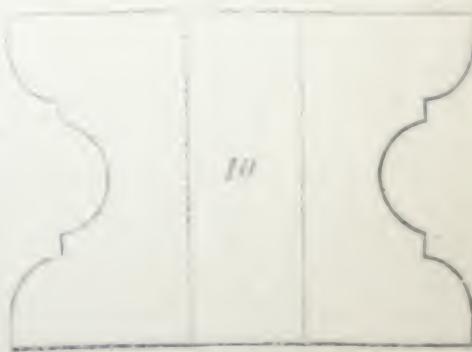
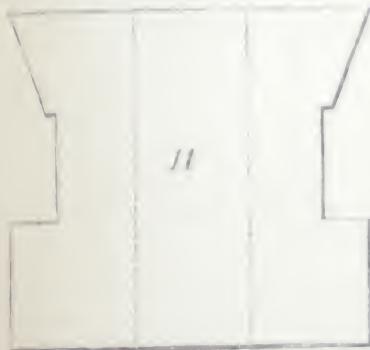
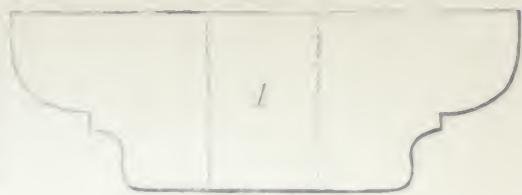
Kice, Lewis &amp; Co., Toronto, Canada.

Barroughs &amp; Co., Zanesville, O.

Weakley &amp; Warren, Nashville, Tenn.

Estey &amp; Tooley, Detroit, Mich.

Cutters for Edge Moulding, Shaping, &c.



Cutters for Edge Moulding, Shaping, &c.

